

9 附录 B 指令码一览

		3 3	3 2	2 8	2 2	2 2	2	2	2	2 :	2	1 1	1 1	1 1	1 5	1 4	1	1	1 1		0 0		0 6		0 0	0 0 0
RDCNTID.W	rj	0 (0 0		0 (0 0	0	0	0	0	0	0 () (0	0	1	1	0		\top	1	rj	101	_		0 0 0
RDCNTVL.W	rd	0 (0 0	0	0 (0 0	0	0	0	0	0	0 () (0	0	1	1	0	0 0	, () (0	0	0		rd
RDCNTVH.W	rd	0 (0 0	0	0 (0 0	0	0	0	0	0	0 () (0	0	1	1	0	0 1	() (0	0	0		rd
ADD.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 () (0	0			rk				rj				rd
SUB.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 () () 1	0			rk				rj				rd
SLT	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 () 1	0	0			rk				rj				rd
SLTU	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 () 1	0	1			rk				rj				rd
NOR	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	0	1	0 1	1 0	0	0			rk				rj				rd
AND	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	0	1	0 1	1 0	0	1			rk				rj				rd
OR	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 1	1 0) 1	0			rk				rj				rd
XOR	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 1	1 0) 1	1			rk				rj				rd
SLL.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 1	1 1	1	0			rk				rj				rd
SRL.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	0 1	1 1	1	1			rk				rj				rd
SRA.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	1 () (0	0			rk				rj				rd
MUL.W	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	0	1	1 1	1 0	0	0			rk				rj				rd
MULH.W	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	1 1	1 0	0	1			rk				rj				rd
MULH.WU	rd, rj, rk	0 (0 0	0	0 (0 0	0	0	0	0	1	1 1	1 0) 1	0			rk				rj				rd
DIV.W	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	1	0	0 () (0	0			rk				rj				rd
MOD.W	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	1	0	0 () (0	1			rk				rj				rd
DIV.WU	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	1	0	0 () () 1	0			rk				rj				rd
MOD.WU	rd, rj, rk	0 (0	0	0 (0 0	0	0	0	1	0	0 (0) 1	1			rk				rj				rd
BREAK	code	0 (0	0	0 (0 0	0	0	0	1	0	1 () 1	0	0							cod	е			
SYSCALL	code	0 (0	0	0 (0 0	0	0	0	1	0	1 () 1	1	0					_		cod	е			
SLLI.W	rd, rj, ui5	0 (0	0	0 (0 0	0	0	1	0	0	0 () (0	1		ι	ui5				rj		\perp		rd
SRLI.W	rd, rj, ui5	0 (0	0	0 (0 0	0	0	1	0	0	0 1	1 0	0	1		ι	ui5				rj		\perp		rd
SRAI.W	rd, rj, ui5	0 (0	0	0 (0 0	0	0	1	0	0	1 (0	0	1		ι	ui5				rj		\perp		rd
FADD.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 (0	0	1			fk				fj		\perp		fd
FADD.D	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 (0) 1	0			fk				fj		\perp		fd
FSUB.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 () 1	0	1			fk				fj		\perp		fd
FSUB.D	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 () 1	1	0			fk				fj				fd
FMUL.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 1	1 0	0	1			fk				fj				fd
FMUL.D	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 1	1 0) 1	0			fk				fj		\downarrow		fd
FDIV.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 1	1 1	0	1			fk				fj		\downarrow		fd
FDIV.D	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	0 1	1 1	1	0			fk				fj		_		fd
FMAX.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	1 (0 0	0	1			fk			_	fj		\downarrow		fd
FMAX.D	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	1 (0 0) 1	0			fk				fj		_		fd
FMIN.S	fd, fj, fk	0 (0	0	0 (0 0	1	0	0	0	0	1 () 1	0	1			fk			_	fj		\perp		fd



		3 3 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1	0 0 0 0 0 0 4 3 2 1 0
FMIN.D	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 fk fj	fd
FMAXA.S	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 1 fk fj	fd
FMAXA.D	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 0 1 1 0 1 0 fk fj	fd
FMINA.S	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 0 1 1 1 0 1 fk fj	fd
FMINA.D	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 0 1 1 1 1 0 fk fj	fd
FCOPYSIGN.S	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 fk fj	fd
FCOPYSIGN.D	fd, fj, fk	0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 1 0 fk fj	fd
FABS.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0	fd
FABS.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 0	fd
FNEG.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 1	fd
FNEG.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 1 0 1	fd
FCLASS.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1 1 0 1 fj	fd
FCLASS.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 0 0 1 1 1 0 fj	fd
FSQRT.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1 0 0 0 1 fj	fd
FSQRT.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 0 1 0 0 1 0 fj	fd
FRECIP.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1	fd
FRECIP.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1	fd
FRSQRT.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 0 1 1 0 0 1	fd
FRSQRT.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 0 1 1 0 1 0 fj	fd
FMOV.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 1 0 1 0	fd
FMOV.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 0 1 0 0 1 1 0 fj	fd
MOVGR2FR.W	fd, rj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1	fd
MOVGR2FRH.W	fd, rj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 0 1	fd
MOVFR2GR.S	rd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 1 0 1 fj	rd
MOVFRH2GR.S	rd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 1 1 1 1 fj	rd
MOVGR2FCSR	fcsr, rj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 0 1 1 0 0 0 0 rj	fcsr
MOVFCSR2GR	rd, fcsr	0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 0 0 1 1 0 0 1 0 fesr	rd
MOVFR2CF	cd, fj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 0 1 1 0 1 0 0 fj	0 0 cd
MOVCF2FR	fd, cj	0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 0 1 0	fd
MOVGR2CF	cd, rj	0 0 0 0 0 0 0 1 0 0 0 1 0 1 0 1 0 1 1 0 1 1 0 rj	0 0 cd
MOVCF2GR	rd, cj	0 0 0 0 0 0 0 1 0 0 0 1 0 0 1 0 1 0 1 0	rd
FCVT.S.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 fj	fd
FCVT.D.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 1 0 0 1 0 0 1 fj	fd
FTINTRM.W.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 0 0 1 fj	fd
FTINTRM.W.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 0 fj	fd
FTINTRP.W.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 0 0 0 1 fj	fd
FTINTRP.W.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 0 0 1 0 0 1 0 fj	fd
FTINTRZ.W.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 fj	fd
FTINTRZ.W.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 0 fj	fd
FTINTRNE.W.S		0 0 0 0 0 0 0 1 0 0 0 1 1 0 1 0 1 0 0 0 1 fj	fd
FTINTRNE.W.D		0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 1 0 1 0	fd
FTINT.W.S	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 1 1 0 0 0 0	fd



		た心未刊	34 14作用可从多	2.21
			0 0 0 0 0 0 0 0	
FTINT.W.D	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 0 1 1 0 0 0 0		fd
FFINT.S.W	fd, fj	0 0 0 0 0 0 1 0 0 0 1 1 1 0 1 0 0 0 1 0 0	fj f	fd
FFINT.D.W	fd, fj	0 0 0 0 0 0 0 1 0 0 0 1 1 1 0 1 0 0 1 0 0 0	fj f	fd
SLTI	rd, rj, si12	0 0 0 0 0 1 0 0 0 si12	rj r	rd
SLTUI	rd, rj, si12	0 0 0 0 0 0 1 0 0 1 si12	rj r	rd
ADDI.W	rd, rj, si12	0 0 0 0 0 0 1 0 1 0 si12	rj r	rd
ANDI	rd, rj, ui12	0 0 0 0 0 0 1 1 0 1 ui12	rj r	rd
ORI	rd, rj, ui12	0 0 0 0 0 0 1 1 1 0 ui12	rj r	rd
XORI	rd, rj, ui12	0 0 0 0 0 0 1 1 1 1 ui12	rj r	rd
CSRRD	rd, csr	0 0 0 0 0 1 0 0 csr	0 0 0 0 0 r	rd
CSRWR	rd, csr	0 0 0 0 0 1 0 0 csr	0 0 0 0 1 r	rd
CSRXCHG	rd, rj, csr	0 0 0 0 0 1 0 0 csr	rj!=0,1 r	rd
CACOP	code, rj, si12	0 0 0 0 0 1 1 0 0 0 si12	rj co	ode
TLBSRCH		0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 0 1 0 1	0 0 0 0 0 0 0	0 0 0
TLBRD		0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 0 1 0 1	0 0 0 0 0 0 0	0 0 0
TLBWR		0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 0 0 1 1 0 0 0	0 0 0 0 0 0 0	0 0 0
TLBFILL		0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 0 0 1 1 0 1	000000	0 0 0
ERTN		0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 0 0 1 1 1 0 0	000000	0 0 0
IDLE	level	0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0 1	level	
INVTLB	op, rj, rk	0 0 0 0 0 1 1 0 0 1 0 0 1 0 0 1 1 rk	rj o	ор
FMADD.S	fd, fj, fk, fa	0 0 0 0 1 0 0 0 0 0 0 1 fa fk	fj f	fd
FMADD.D	fd, fj, fk, fa	0 0 0 0 1 0 0 0 0 0 1 0 fa fk	fj f	fd
FMSUB.S	fd, fj, fk, fa	0 0 0 0 1 0 0 0 0 1 0 1 fa fk	fj f	fd
FMSUB.D	fd, fj, fk, fa	0 0 0 0 1 0 0 0 0 1 1 0 fa fk	fj f	fd
FNMADD.S	fd, fj, fk, fa	0 0 0 0 1 0 0 0 1 0 0 1 fa fk	fj f	fd
FNMADD.D	fd, fj, fk, fa	0 0 0 0 1 0 0 0 1 0 1 0 fa fk	fj f	fd
FNMSUB.S	fd, fj, fk, fa	0 0 0 0 1 0 0 0 1 1 0 1 fa fk	fj f	fd
FNMSUB.D	fd, fj, fk, fa	0 0 0 0 1 0 0 0 1 1 1 0 fa fk	fj f	fd
FCMP.cond.S	cd, fj, fk	0 0 0 0 1 1 0 0 0 0 0 1 cond fk	fj 0 0	cd
FCMP.cond.D	cd, fj, fk	0 0 0 0 1 1 0 0 0 0 1 0 cond fk	fj 0 0	cd
FSEL	fd, fj, fk, ca	0 0 0 0 1 1 0 1 0 0 0 0 0 ca fk	fj f	fd
LU12I.W	rd, si20	0 0 0 1 0 1 0 si20	r	rd
PCADDU12I	rd, si20	0 0 0 1 1 1 0 si20	r	rd
LL.W	rd, rj, si14	0 0 1 0 0 0 0 0 si14	rj r	rd
SC.W	rd, rj, si14	0 0 1 0 0 0 0 1 si14	rj r	rd
LD.B	rd, rj, si12	0 0 1 0 1 0 0 0 0 0 si12	rj r	rd
LD.H	rd, rj, si12	0 0 1 0 1 0 0 0 0 1 si12	rj r	rd
LD.W	rd, rj, si12	0 0 1 0 1 0 0 0 1 0 si12	rj r	rd
ST.B		0 0 1 0 1 0 0 1 0 0 si12	rj r	rd
	rd, rj, si12			
ST.H	rd, rj, si12 rd, rj, si12	0 0 1 0 1 0 0 1 0 1 si12		rd
ST.H ST.W			rj r	rd rd





		3		2 9	2 8		2 6				2		1 1 6 5	1 1 1 1 1 4 3 2 1 0	1			0 0 0 0 0 4 3 2 1 0
LD.HU	rd, rj, si12	0	0	1	0	1	0	1	0	0	1		si12				rj	rd
PRELD	hint, rj, si12	0	0	1	0	1	0	1	0	1	1		si12				rj	hint
FLD.S	fd, rj, si12	0	0	1	0	1	0	1	1	0	0		si12				rj	fd
FST.S	fd, rj, si12	0	0	1	0	1	0	1	1	0	1		si12				rj	fd
FLD.D	fd, rj, si12	0	0	1	0	1	0	1	1	1	0		si12				rj	fd
FST.D	fd, rj, si12	0	0	1	0	1	0	1	1	1	1		si12		rj			fd
DBAR	hint	0	0	1	1	1	0	0	0	0	1	1 1 0 0 1	0 0		hint			
IBAR	hint	0	0	1	1	1	0	0	0	0	1	1 1 0 0 1	0 1			r	int	
BCEQZ	cj, offs	0	1	0	0	1	0					offs[15:0	0]		0	0	cj	offs[20:16]
BCNEZ	cj, offs	0	1	0	0	1	0					offs[15:0	0]		0	1	cj	offs[20:16]
JIRL	rd, rj, offs	0	1	0	0	1	1					offs[15:0	0]				rj	rd
В	offs	0	1	0	1	0	0					offs[15:0	0]		offs[2			25:16]
BL	offs	0	1	0	1	0	1					offs[15:0	0]				offs[2	25:16]
BEQ	rj, rd, offs	0	1	0	1	1	0					offs[15:0	0]				rj	rd
BNE	rj, rd, offs	0	1	0	1	1	1					offs[15:0	0]				rj	rd
BLT	rj, rd, offs	0	1	1	0	0	0					offs[15:0	0]				rj	rd
BGE	rj, rd, offs	0	1	1	0	0	1					offs[15:0	0]				rj	rd
BLTU	rj, rd, offs	0	1	1	0	1	0					offs[15:0	0]				rj	rd
BGEU	rj, rd, offs	0	1	1	0	1	1					offs[15:0	0]				rj	rd